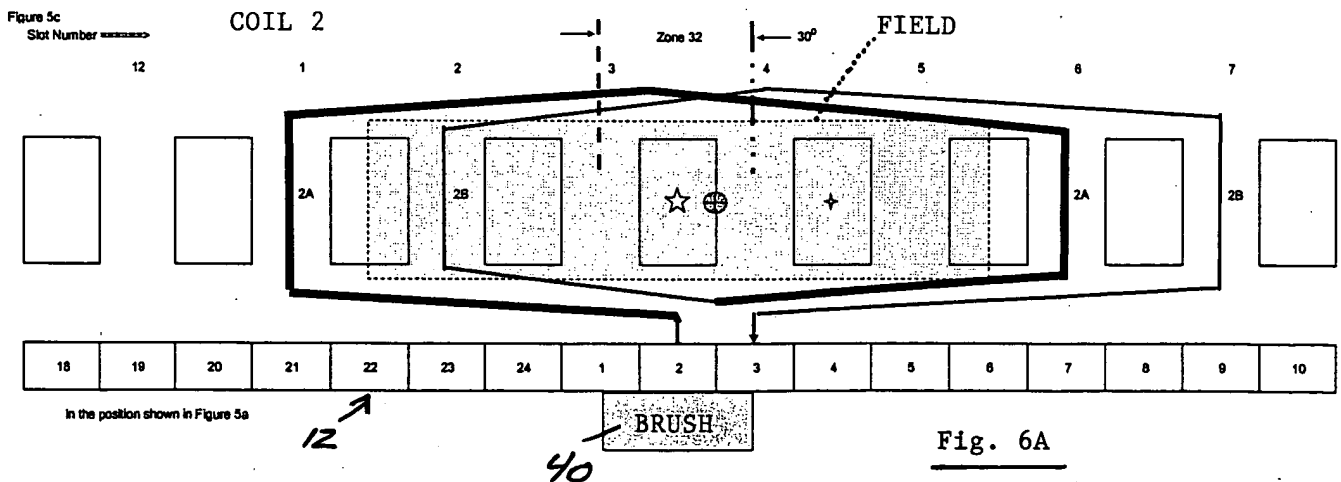
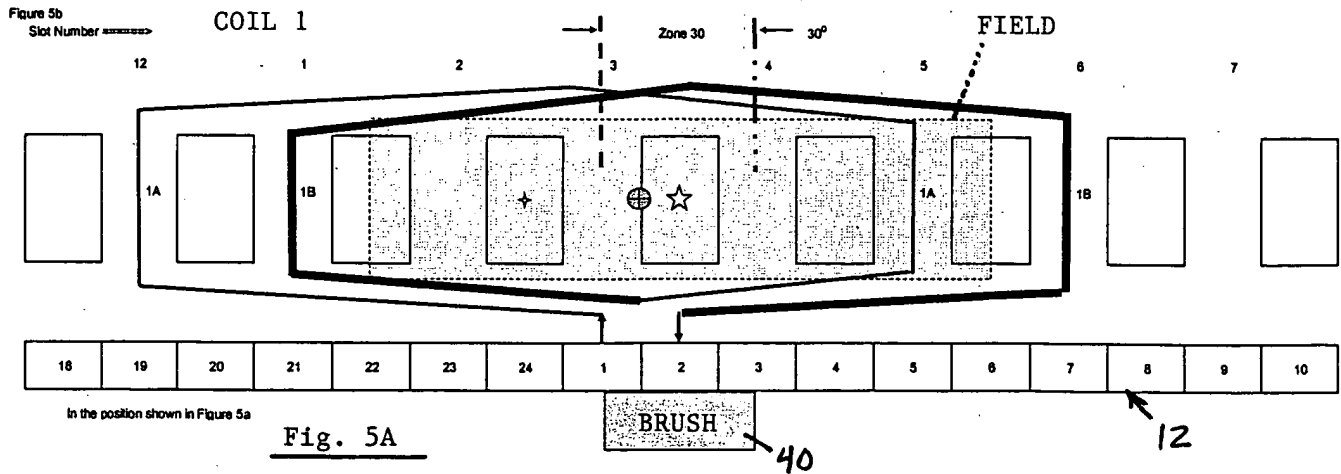
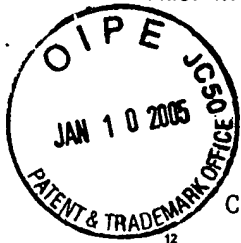


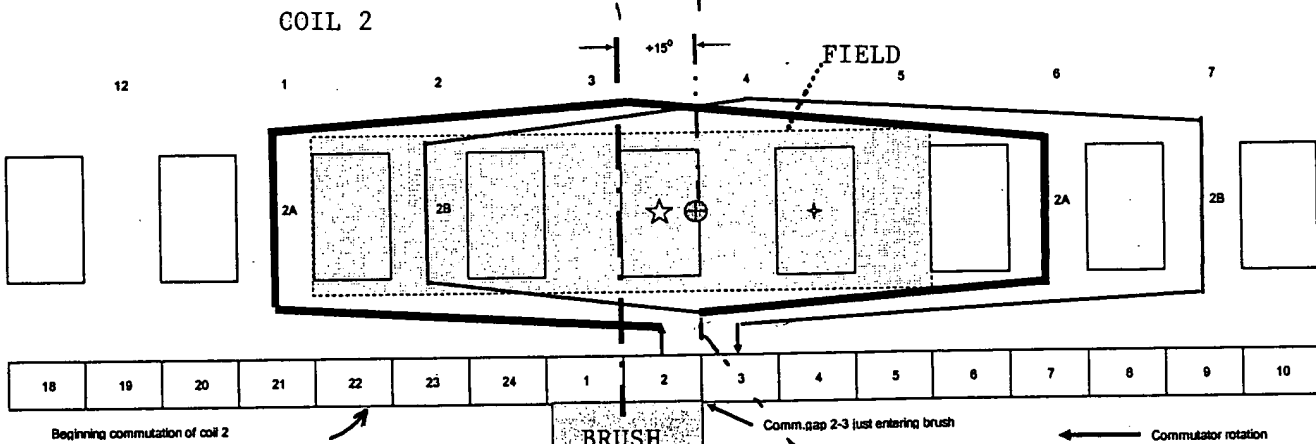
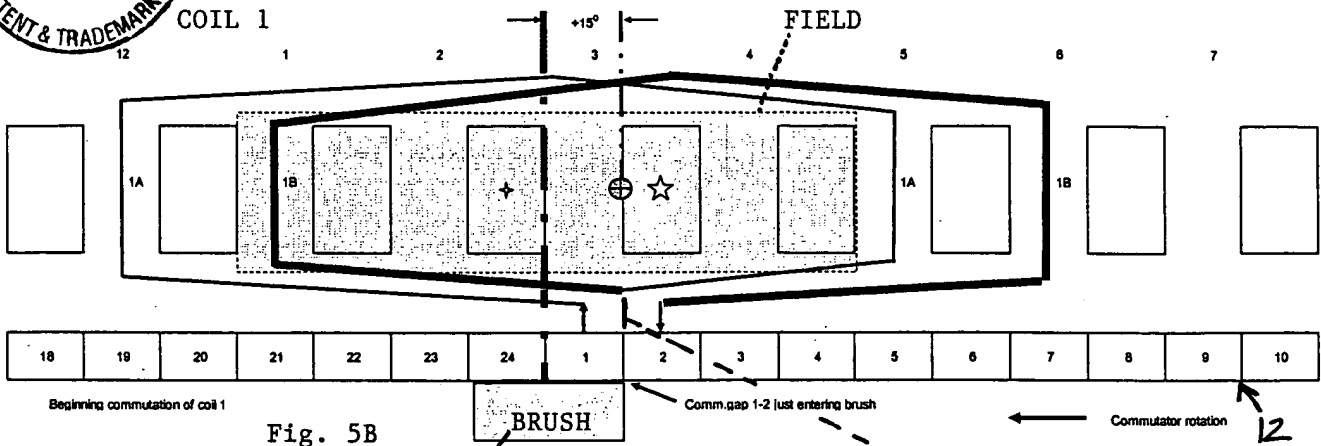
**4/6**



- Key:** ☆ Magnetic axis of larger subcoil  
 + Magnetic axis of smaller subcoil  
 ⊕ MAGNETIC AXIS of total coil (resultant)
- — — — — ■ — — — — — ■ Axis of field pole and brush  
 — . . . — . . . — Position of MAGNETIC AXIS at start of commutation  
 - - - - - - - - - - - Position of MAGNETIC AXIS at end of commutation



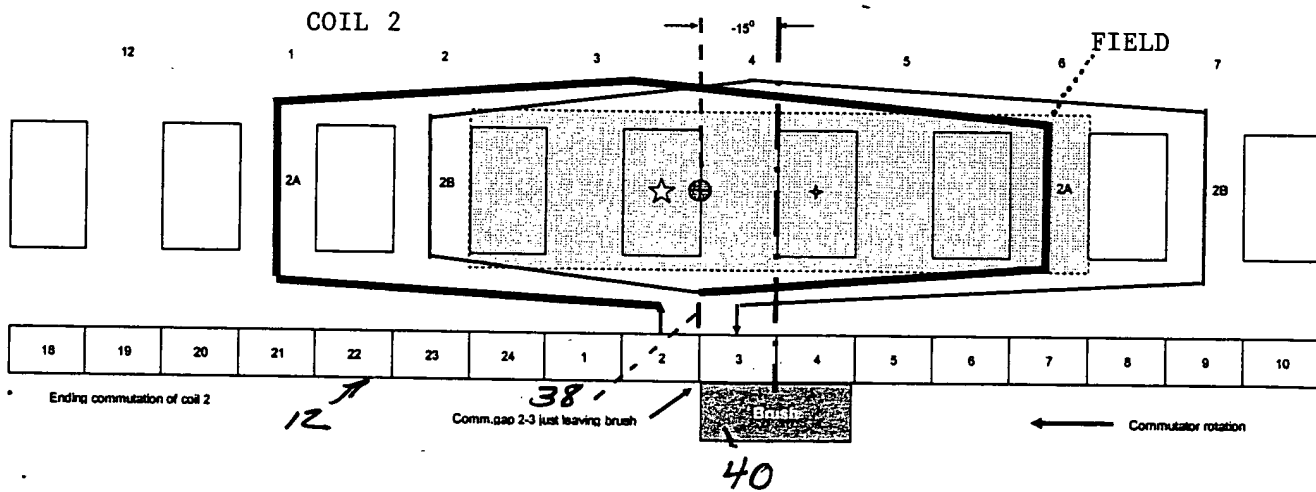
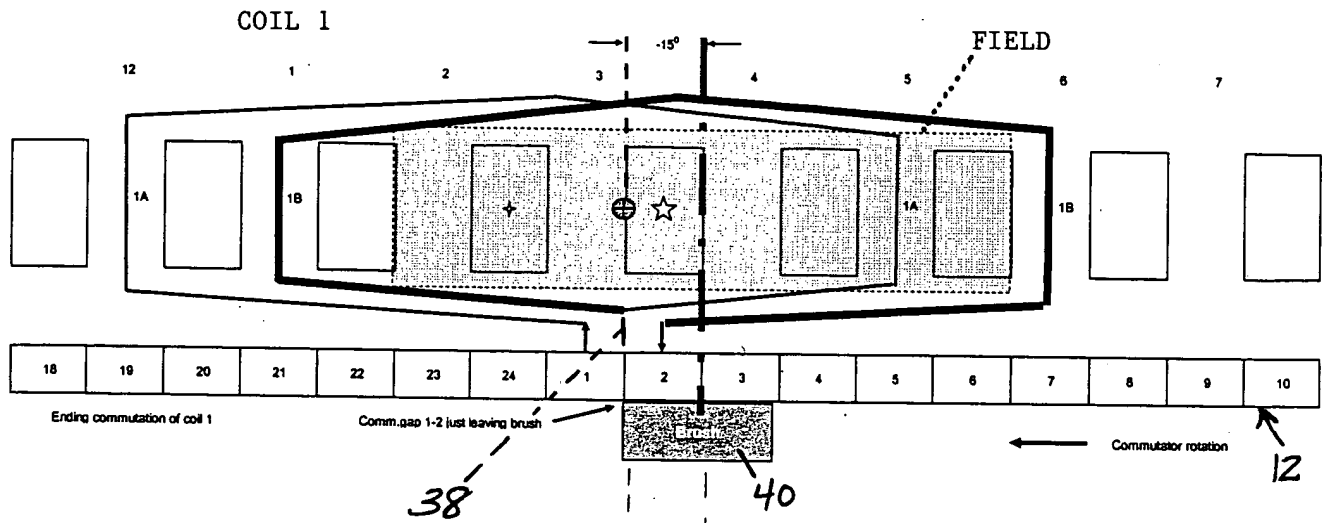
5/6



- Key:
- ☆ Magnetic axis of larger subcoil
  - ⊕ Magnetic axis of smaller subcoil
  - ⊕ MAGNETIC AXIS of total coil (resultant)
  - — — — — Axis of field pole and brush
  - . . . . . Position of MAGNETIC AXIS at start of commutation
  - - - - - Position of MAGNETIC AXIS at end of commutation



6/6



- Key:
- ☆ Magnetic axis of larger subcoil
  - ⊕ Magnetic axis of smaller subcoil
  - ⊙ MAGNETIC AXIS of total coil (resultant)
  - Axis of field pole and brush
  - Position of MAGNETIC AXIS at start of commutation
  - Position of MAGNETIC AXIS at end of commutation

BEST AVAILABLE COPY